

Converting Colors

$Y_{xy}(13.5088, 0.2904, 0.2034)$

Have a look what the booklet for
Yxy(13.5088, 0.2904, 0.2034)
contains.

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Color

Yxy(13.4900, 0.2909, 0.2036)

Conversions

Conversions Part 1

Format	Color
Hex	89509D
RGB	137, 80, 157
RGB Percent	54%, 31%, 62%
CMY	0.4627, 0.6863, 0.3843
CMYK	0.13, 0.49, 0.00, 0.38
HSL	284°, 33%, 46%
HSV	284°, 49%, 62%
XYZ	19.2743, 13.4900, 33.4931
YIQ	105.8210, 9.2550, 36.0310

Conversions

Conversions Part 2

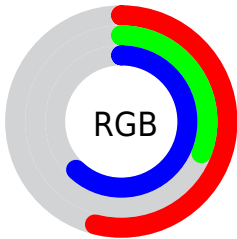
Format	Color
R _Y B	137, 80, 157
Decimal	8999069
CIE _{Lab}	43.49, 37.32, -32.44
CIE _{LCh}	43, 49.446, 319.006
Y _{xy}	13.4900, 0.2909, 0.2036
Android (android.graphics.Color)	4287189149 (0xFF89509D)
Y _{UV}	105.8210, 25.2312, 27.3440
Hunter-Lab	36.7287, 29.3968, -28.3567

Details

The Yxy color **13.4900, 0.2909, 0.2036** is a dark color, and the websafe version is hex **9966CC**. A complement of this color would be **27.4067, 0.3232, 0.4721**, and the grayscale version is **14.2895, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.1925, 0.2976, 0.2296**, and **3.9312, 0.2772, 0.1606** is the 20% darker color. If you saturate the color by 10%, you get **11.1161, 0.2846, 0.1798**, and if you desaturate by 10%, it is **16.4153, 0.2966, 0.2292**.

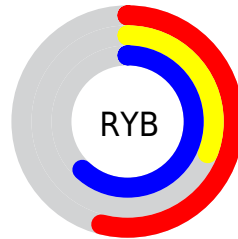
Distribution



Red (54%)

Green (31%)

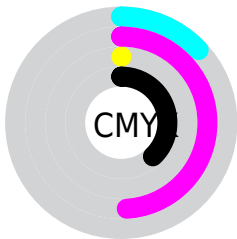
Blue (62%)



Red (54%)

Yellow (31%)

Blue (62%)

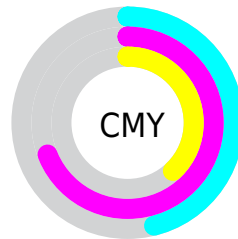


Cyan (13%)

Magenta (49%)

Yellow (0%)

Black (38%)



Cyan (46%)


Magenta (69%)

Yellow (38%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.4900, 0.2909, 0.2036 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 13.4900, 0.2909, 0.2036 by changing the saturation by 10% instead.


 13.4900, 0.2909,
0.2036


 13.4900, 0.2909,
0.2036

214.0346, 0.3059,
0.2718


 7.7668, 0.2853,
0.1851

 32.1813, 0.2976,
0.2296


 3.9461, 0.2767,
0.1606


 45.9183, 0.2997,
0.2390


 1.6435, 0.2624,
0.1275

 63.0952, 0.3013,
0.2468

 0.3866, 0.2398,
0.0682

 84.0967, 0.3026,
0.2534

 0.0000, 0.1252,
0.0000

 109.3069, 0.3037,
0.2590

 0.0000, 0.0000,
0.0000

139.1104, 0.3045,

0.2639

173.8915, 0.3053,
0.2681

■ 13.4900, 0.2909,
0.2036

■ 13.4900, 0.2909,
0.2036

■ 11.1161, 0.2846,
0.1798

■ 16.4153, 0.2966,
0.2292

■ 9.2537, 0.2779,
0.1587

■ 19.9248, 0.3017,
0.2556

■ 7.8604, 0.2710,
0.1415

■ 24.0507, 0.3061,
0.2818

■ 6.8859, 0.2642,
0.1287

■ 28.8222, 0.3099,
0.3072

■ 6.2240, 0.2574,
0.1197

■ 34.2668, 0.3130,
0.3312

■ 6.1654, 0.2568,
0.1188

■ 40.4102, 0.3155,
0.3536

■ 47.2770, 0.3176,
0.3743

■ 54.8904, 0.3192,
0.3932

■ 63.2726, 0.3205,
0.4103

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



13.4900, 0.2074, 0.1818



13.4900, 0.2909, 0.2036



13.4900, 0.3981, 0.2490

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



13.4900, 0.2909, 0.2036



13.4900, 0.4775, 0.4508



13.4900, 0.1621, 0.3119

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



13.4900, 0.2909, 0.2036



27.4067, 0.3232, 0.4721

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



13.4900, 0.2181, 0.4307



13.4900, 0.2909, 0.2036



13.4900, 0.3996, 0.5107

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



13.4900, 0.2909, 0.2036



13.4900, 0.5148, 0.3789



13.4900, 0.3055, 0.5152



13.4900, 0.1441, 0.2275

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



13.4900, 0.2909, 0.2036



13.4900, 0.4629, 0.2887



13.4900, 0.3055, 0.5152



13.4900, 0.1764, 0.3498

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



13.4906, 0.2909, 0.2036



46.1437, 0.3076, 0.2915



13.3560, 0.2292, 0.2186



9.7985, 0.3069, 0.2865



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.4906, 0.2909, 0.2036



19.5009, 0.2839, 0.1773



14.7707, 0.3437, 0.2368



6.6679, 0.3098, 0.3067



5.0247, 0.2573, 0.1191



0.1088, 0.2843, 0.1340

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



13.8252, 0.4092, 0.2966



20.3574, 0.4450, 0.2910



26.7054, 0.2926, 0.4447



6.6730, 0.3245, 0.3232



5.9558, 0.5850, 0.2996



0.1128, 0.4857, 0.2449

Previews

White Background



This preview shows how the Yxy color 13.4900, 0.2909, 0.2036 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 13.4900, 0.2909, 0.2036 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

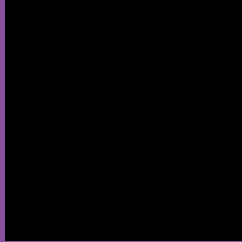
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 13.4900, 0.2909, 0.2036

Background



This preview shows how black text looks on a background with the Yxy color 13.4900, 0.2909, 0.2036.



This preview shows how white text looks on a background with the Yxy color 13.4900, 0.2909, 0.2036.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

13.4900, 0.2909, 0.2036

Protanopia

13.7815, 0.2101, 0.1919

Deuteranopia

13.7497, 0.2340, 0.2299



Tritanopia

13.4354, 0.3574, 0.3135

Trichromacy



Original Color

13.4900, 0.2909, 0.2036

Protanomaly

13.1262, 0.2317, 0.1926

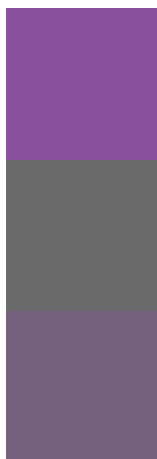
Deuteranomaly

13.2842, 0.2511, 0.2181

Tritanomaly

13.2655, 0.3324, 0.2680

Monochromacy



Original Color

13.4900, 0.2909, 0.2036

Achromatopsia

14.4128, 0.3127, 0.3290

Achromatomaly

13.8120, 0.3039, 0.2741

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.4900, 0.2909, 0.2036 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(137, 80, 157)` looks like.

```
.text, #text, p{  
  color:rgb(137, 80, 157)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(137, 80, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 80, 157) }
```

Border

The CSS property to change the border of an element to Yxy 13.4900, 0.2909, 0.2036 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(137, 80, 157) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(137, 80, 157) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(137, 80, 157) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 80, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 80, 157);  
box-shadow:4px 4px 4px 4px rgb(137, 80,  
157) }
```


Background

The CSS property to change the background color of an element to Yxy 13.4900, 0.2909, 0.2036 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 80, 157) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(137, 80,  
157) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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